amplification from the cyclized templates. Comparison of these DNA sequences with the cDNA sequences placed exon boundaries at the divergence points. SRP19 and DP1 were each shown to have five exons. DP2.5 consisted of 15 exons. The sequences of the oligonucleotides synthesized to provide PCR amplification primers for the exons of each of these genes are listed in Table III.

(2) At columns 26-27, delete Table III and replace it with the following replacement Table III. All the underlining in replacement Table III was present in the original.

Sequence of Primers Used for SSCP Analyses

Exon Primer 1

Primer 2

DPI

UP-TCCCCGCCTGCCGCTCTC (SEQ ID NO:39)
UP-GTGAACGGCTCTCATGCTGC (SEQ ID NO:41)
UP-ATGATATCTTACCAAATGATATAC (SEQ ID NO:43)
UP-TACCCATGCTGGCTCTTTTTC (SEQ ID NO:45)
UP-ACATTAGGCACAAAGCTTGCAA (SEQ ID NO:47)

RP-GCAGCGGCGGCTCCCGTG (SEQ ID NO:40)
RP-ACGTGCGGGGAGGAATGGA (SEQ ID NO:42)
RP-TTATTCCTACTTCTTCTATACAG (SEQ ID NO:44)
RP-TGGGGCCATCTTGTTCCTGA (SEQ ID NO:46)
RP-ATCAAGCTCCAGTAAGAAGGTA (SEQ ID NO:48)

SRP19

UP-TGCGGCTCCTGGGTTGTTG (SEQ ID NO:49)
UP-TTTTCTCCTGCCTCTTACTGC (SEQ ID NO:51)
UP-CCACTTAAAGCACATATATTTAGT (SEQ ID NO:53)
UP-TTCTTAAGTCCTGTTTTTCTTTTG (SEQ ID NO:55)
UP-CTCAGATTATACACTAAGCCTAAC (SEQ ID NO:57)

RP-GCCCCTTCCTTTCTGAGGAC (SEQ ID NO:50)
RP-ATGACACCCCCATTCCCTC (SEQ ID NO:52)
RP-GTATGGAAAATAGTGAAGAACC (SEQ ID NO:54)
RP-TTTAGAACCTTTTTTGTGTTGTG (SEQ ID NO:56)
RP-CATGTCTTACAGTAGTACCA (SEQ ID NO:58)

DP2.5

RP-TAAAAATGGATAAACTACAATTAAAAG (SEQ ID NO:60)
RP-ACACTAAAGATGACAATTTGAG (SEQ ID NO:62)
RP-ACAATAAAACTGGAGTACACAAGG (SEQ ID NO:64)
RP-TGAATTTTAATGGATTACCTAGGT (SEQ ID NO:66)
RP-TGTAATTCATTTTATTCCTAATACCTC (SEQ ID NO:68)
RP-CTACCTATTTTATACCCACAAAC (SEQ ID NO:70)
RP-GATCATTCTTAGAACCATCTTGC (SEQ ID NO:72)
RP-GATCATTCTTAGAACCATCTTGC (SEQ ID NO:72)
RP-GTCATGGCATTACTGACCAG (SEQ ID NO:74)
RP-TGAAGGACTCCGATTTCACCC* (SEQ ID NO:76)

RP-GTTTCTCTTCATTATATTTTATGCTA* (SEQ ID NO:110) RP-TTGAATCTTTAATGTTTGGATTTGC* (SEQ ID NO:142) RP-GAATCAGACCAAGCTTGTCTAGAT* (SEQ ID NO:130) RP-AGCTGATGACAAAGATGATAATC* (SEQ ID NO:112) RP-ATTGTGTAACTTTTCATCAGTTGC* (SEQ ID NO:126) RP-CTTGTATTCTAATTTGGCATAAGG* (SEQ ID NO:106) RP-ATGTTTTCATCCTCACTTTTTGC* (SEQ ID NO:140) RP-AAACAGGACTTGTACTGTAGGA* (SEQ ID NO:132) RP-ACAGAGTCAGACCCTCCACAAG (SEQ ID NO:84) RP-TTGTGGTATAGGTTTTACTGGTG* (SEQ ID NO:122) RP-GTTGACTGGCGTACTAATACAG* (SEQ ID NO:136) RP-ATTITCTTACTTTCATTCTTCCTC (SEQ ID NO:146) RP-TACCATGATTTAAAAATCCACCAG (SEQ ID NO:80) RP-CTGAGCTATCTTAAGAAATACATG (SEQ ID NO:82) RP-ACTTCTATCTTTTCAGAACGAG* (SEQ ID NO:104) RP-GAGGACTTATTCCATTTCTACC* (SEQ ID NO:134) RP-GCTTTTTGTTTCGTAACATGAAG* (SEQ ID NO:90) RP-TCCATCTGGAGTACTTTCTGTG* (SEQ ID NO:116) RP-GTGGCTGGTAACTTTAGCCTC* (SEQ ID NO:124) RP-CTTTTTTGGCATTGCGGAGCT* (SEQ ID NO:128) RP-GCTACAACTGAATGGGGTACG (SEQ ID NO:144) RP-ATACACAGGTAAGAAATTAGGA (SEQ ID NO:86) RP-GAGCCTCATCTGTACTTCTGC* (SEQ ID NO:120) RP-TGGGACTTTTCGCCATCCAC* (SEQ ID NO:138) RP-GCTTTGAAACATGCACTACGAT (SEQ ID NO:78) RP-CAATTAGGTCTTTTTGAGAGTA (SEO ID NO:88) RP-TGTTTGCGTCTTGCCCATCTT* (SEQ ID NO:108) RP-ATGAGTGGGGTCTCCTGAAC* (SEQ ID NO:114) RP-CCGTGGCATATCATCCCCC* (SEQ ID NO:118) UP-AAGAAACAATACAGACTTATTGTG* (SEQ ID NO:113) UP-CAATAGTAAGTTTACATCAAG* (SEQ ID NO:131) UP-ACCCAACAAAATCAGTTAGATG* (SEQ ID NO:123) UP-TGGTAATGGAGCCAATAAAAAGG* (SEQ ID NO:137) UP-AGTCTTAAATATTCAGATGAGCAG* (SEQ ID NO:109) UP-AAGCCTACCAATTATAGTGAACG* (SEQ ID NO:111) UP-GGAGAAGAACTGGAAGTTCATC* (SEQ ID NO:141) JP-AGTACAAGGATGCCAATATTATG* (SEQ ID NO:103) UP-TTTTAAATGATCCTCTATTCTGTAT (SEQ ID NO:83) UP-AAGATGACCTGTTGCAGGAATG* (SEQ ID NO:129) UP-TCATTCACTCACAGCCTGATGAC* (SEQ ID NO:77) UP-AAACATCATTGCTCTTCAAATAAC (SEQ ID NO:79) UP-ATTTGAATACTACAGTGTTACCC* (SEQ ID NO:105) UP-AGTAAATGCTGCAGTTCAGAGG* (SEQ ID NO:117) UP-CTGCCCATACACATTCAAACAC* (SEQ ID NO:107) UP-AAAGACATACCAGACAGAGGG* (SEQ ID NO:127) UP-CCCAGACTGCTTCAAAATTACC* (SEQ ID NO:119) UP-CAGGACAAATAATCCTGTCCC (SEQ ID NO:145) UP-GATGATTGTCTTTTTCCTCTTTGC (SEQ ID NO:81) UP-TGTCTCTATCCACACATTCGTC* (SEQ ID NO:139) UP-CAGCCCCTTCAAGCAAACATC* (SEQ ID NO:133) UP-CCCTCCAAATGAGTTAGCTGC* (SEQ ID NO:121) UP-ATGATGTTGACCTTTCCAGGG* (SEQ ID NO:125) UPATCTCCCTCCAAAGTGGTGC* (SEQ ID NO:115) UP-TTTCTATTCTTACTGCTAGCATT (SEQ ID NO:85) UP-GTTACTGCATACACATTGTGAC (SEQ ID NO:89) UP-TCTCCCACAGGTAATACTCCC (SEQ ID NO:143) UP-CAGTCTCCTGGCCGAAACTC* (SEQ ID NO:135) JP-TAGATGACCCATATTCTCTTTC (SEQ ID NO:87)

amplifies. Primers that lie within the exon are identified by an asterisk. UP represents the 21M13 universal primer sequence[:]. RP represents the All primers are read in the 5' to 3' direction, the first primer in each pair lies 5' of the exon it amplifies: the second primer lies 3' of the exon it M13 reverse primer sequence. (3) At column 32, delete Table IV and replace it with:

TABLE IV

Seven Different Versions of the 20-Amino Acid Repeat

Consensus: 1262: 1376: 1492: 1643: 1848: 1953: 2013:	F*VE*TP*CFSR*SSLSSLS YCVEDTPICFSRCSSLSSLS HTVQETPLMFSRCTSVSSLD FATESTPDGFSCSSSLSALS YCVEGTPINFSTATSLSDLT TPIEGTPYCFSRNDSLSSLD FAIENTPVCPSHNSSLSSLS RHVEDTPVCFSRNSSLSSLS	(SEQ ID NO:147) (SEQ ID NO:148) (SEQ ID NO:149) (SEQ ID NO:150) (SEQ ID NO:151) (SEQ ID NO:152) (SEQ ID NO:153) (SEQ ID NO:154)
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Numbers denote the first amino acid of each repeat. The consensus sequence at the top reflects a majority amino acid at a given position.

(4) Delete the sequence listing originally filed with the application and replace it with the paper copy of the substitute sequence listing that accompanies this amendment.

Remarks

The Second Advisory Action mailed December 28, 2001 indicated that the sequences of Tables III and IV must be identified by SEQ ID NO: before the application can be allowed. This amendment provides sequence identifiers for each of the sequences in Tables III and IV.

The amendment also provides a substitute sequence listing. The substitute sequence listing adds sequences in Tables III and IV that were not present in the sequence listing filed with the application. In addition, the sequence listing makes two clerical corrections to SEQ ID NOS:68 and 76 ("C" instead of "G" at position 24 of SEQ ID NO:68 and "C" instead of "G" at position 20 of SEQ ID NO:76). These sequences were corrected to conform to the sequences